

TRANSMITTAL FORM

Application Number: 10/655,914
 Filing Date: September 5, 2003
 First Named Inventor: Frederick R. Blattner
 Art Unit: 1636
 Examiner Name: Nancy S. Vogel
 Attorney Docket Number: WARF:018US

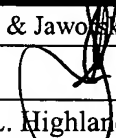
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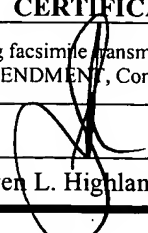
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Date	January 17, 2006		

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PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE



In re Application of:
Frederick R. Blattner *et al.*

Serial No.: 10/655,914

Filed: September 5, 2003

For: COMPETENT BACTERIA

Group Art Unit: 1636

Examiner: Nancy S. Vogel

Atty. Dkt. No.: WARF:018US

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Steven L. Highlander

INFORMATION DISCLOSURE STATEMENT

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Commissioner for Patents

P.O. Box 1450

Alexandria, Virginia 22313-1450

Sir:

In compliance with the duty of disclosure under 37 C.F.R. § 1.56, it is respectfully requested that this Information Disclosure Statement be entered and the documents listed on attached Form PTO-1449 be considered by the Examiner and made of record. Copies of the listed documents required by 37 C.F.R. § 1.98(a)(2) are enclosed for the convenience of the Examiner.

In accordance with 37 C.F.R. §§ 1.97(g), (h), this Information Disclosure Statement is not to be construed as a representation that a search has been made, and is not to be construed to be an admission that the information cited is, or is considered to be, material to patentability as defined in 37 C.F.R. § 1.56(b).

A fee as set forth in 37 C.F.R. § 1.17(p) in the amount of \$180.00 is enclosed. If an appropriate check has not been enclosed, or if it is insufficient, the Commissioner is authorized to deduct the appropriate fee from Fulbright & Jaworski Account No.: 50-1212/WARF:018US.

Applicants respectfully request that the listed documents be made of record in the present case.

Respectfully submitted,



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Attorney for Applicants

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Date: January 17, 2006

Form PTO-1449 (modified)

Atty. Docket No.

WARF:018US

Serial No.

10/655,914

List of Patents and Publications for Applicant's

Applicant

Frederick R. Blattner et al.

INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

Filing Date:

September 5, 2003

Group:

1636

U.S. Patent Documents

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Foreign Patent Documents

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Other Art

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U.S. Patent Documents

Exam. Init.	Ref. Des.	Document Number	Date	Name	Class	Sub Class	Filing Date of App.
	A1	5,747,662	05/05/98	Simmons <i>et al.</i>	536	24.1	3/01/95
	A2	5,578,464	11/26/96	Lunn <i>et al.</i>	435	69.1	5/11/95
	A3	5,824,502	10/20/98	Honjo <i>et al.</i>	435	69.1	3/27/97
	A4	5,962,327	10/05/99	Dujon <i>et al.</i>	435	478	4/5/95
	A5	6,015,709	01/28/00	Natesan	435	366	8/27/97
	A6	6,022,952	02/08/00	Weiner <i>et al.</i>	530	350	4/1/98
	A7	6,117,680	09/12/00	Natesan <i>et al.</i>	435	455	8/26/98
	A8	6,238,924	05/29/01	Dujon <i>et al.</i>	435	477	11/20/98
	A9	6,335,178	01/01/02	Weiner <i>et al.</i>	435	69.1	05/28/98
	A10	6,372,476	04/16/02	Belguith <i>et al.</i>	435	233	8/26/99
	A11	6,410,273	06/25/02	Crouzet <i>et al.</i>	435	91.1	6/24/97
	A12	6,509,156	01/21/03	Stewart <i>et al.</i>	435	6	12/7/98

Foreign Patent Documents

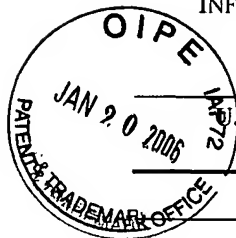
Exam. Init.	Ref. Des.	Document Number	Date	Country	Class	Sub Class	Translation Yes/No
	B1	EP 0 283 7236	09/28/88	Europe			
	B2	EP 0177343	4/09/86	Europe			
	B3	WO 01/27258	04/19/01	WIPO			
	B4	WO 02/14495	2/21/02	WIPO			
	B5	WO 03/048374	06/12/03	WIPO			
	B6	WO 03/070880	08/28/03	WIPO			
	B7	WO 2005/087940	09/22/05	WIPO			

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Form PTO-1449 (modified)		Atty. Docket No. WARF:018US	Serial No. 10/655,914
List of Patents and Publications for Applicant's INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)		Applicant Frederick R. Blattner et al.	
		Filing Date: September 5, 2003	Group: 1636
U.S. Patent Documents <i>See Page 1</i>	Foreign Patent Documents <i>See Page 1</i>	Other Art <i>See Page 2</i>	

Foreign Patent Documents

Exam. Init.	Ref. Des.	Document Number	Date	Country	Class	Sub Class	Translation Yes/No
	B8	WO 96/14408	5/17/96	WIPO			

Other Art (Including Author, Title, Date Pertinent Pages, Etc.)

Exam. Init.	Ref. Des.	Citation
	C1	Aristidou <i>et al.</i> , "Modification of central metabolic pathway in escherichia coli to reduce acetate accumulation by heterologous expression of the bacillus subtilis acetolactate synthase gene," <i>Biotechnology and Bioengineering</i> , 44:944-951, 1994
	C2	Balbas, "Understanding the art of producing protein and non-protein molecules in E. coli," <i>Molec Biotechnol.</i> , 19:251-267, 2001.
	C3	Baneyx, "Recombinant protein expression in E. coli," <i>Curr Opin Biotech</i> , 10:411-421, 1999.
	C4	Bermejo <i>et al.</i> , "Expression of clostridium acetobutylicum ATCC 824 genes in escherichia coli for acetone production and acetate detoxification," <i>Applied and Environmental Microbiology</i> , 64:1079-1085, 1998
	C5	Berry <i>et al.</i> , "Application of metabolic engineering to improve both production and use of biotech indigo," <i>J Indust Micro & Biotech</i> , 22:127-133, 2002.
	C6	Blattner <i>et al.</i> , "The complete genome sequence of Escherichia coli K-12," <i>Science</i> , 277:1453-1474, 1997.
	C7	Blaudeck <i>et al.</i> , "Specificity of single peptide recognition in TAT-dependent bacterial protein translocation," <i>J. Bacteriology</i> , 183:604-610, 2001.
	C8	Chang <i>et al.</i> , "Acetate metabolism in a pta mutant of escherichia coli W3110: Importance of maintaining acetyl coenzyme a flux for growth and survival," <i>Journal of Bacteriology</i> , 181:6656-6663, 1999.
	C9	Chou <i>et al.</i> , "Effects of modified glucose uptake using genetic engineering techniques on high-level recombinant protein production in escherichia coli dense cultures," <i>Biotechnology and Bioengineering</i> 44:953-960, 1994.
	C10	Contiero <i>et al.</i> , "Effects of mutations in acetate metabolism on high-cell-density growth of eschrichia coli," <i>Journal of Industrial Microbiology & Biotechnology</i> , 24:421-430, 2000.

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Other Art (Including Author, Title, Date Pertinent Pages, Etc.)

Exam. Init.	Ref. Des.	Citation
	C11	Court <i>et al.</i> , "Genetic engineering using homologous recombination," <i>Annu Rev Genet</i> , 36:361-388, 2002.
	C12	Danese <i>et al.</i> , "Targeting and assembly of periplasmic and outer-membrane proteins in <i>Escherichia coli</i> ," <i>Annu Rev Genet</i> , 32:59-64, 1998.
	C13	Database EMBL, "E.coli genomic DNA, Kohara clone #421(55.1-55.5 min.)," Database Accession No. ECD874.
	C14	Datsenko <i>et al.</i> , "One-step inactivation of chromosomal genes in <i>Escherichia coli</i> K-12 using PCR products," <i>Proc. Natl. Acad. Sci., USA</i> , 97:6640-6649, 2000.
	C15	Dedhia <i>et al.</i> , "Overproduction of glycogen in <i>escherichia coli</i> blocked in the acetate pathway improved cell growth," <i>Biotechnology and Bioengineering</i> , 44:132-139, 1994.
	C16	Degryse, "Evaluation of <i>Escherichia coli</i> recBC sbcBC mutants for cloning by recombination in vivo," <i>J. Biotechnology</i> , 39:181-187, 1995.
	C17	DeLisa <i>et al.</i> , "Quorum sensing via AI-2 communicates the metabolic burden associated with heterologous protein production in <i>E. coli</i> ," <i>Biotech Bioeng</i> , 75(4):439-450, 2001.
	C18	Diaz-Ricci <i>et al.</i> , "Effects of alteration of the acetic acid synthesis pathway on the fermentation pattern of <i>escherichia coli</i> ," <i>Biotechnology and Bioengineering</i> , 38:1318-1324, 1991
	C19	Farmer <i>et al.</i> , "Reduction of aerobic acetate production by <i>escherichia coli</i> ," <i>Applied and Environmental Microbiology</i> , 63:3205-3210, 1997.
	C20	Fekkes <i>et al.</i> , "Protein targeting to the bacterial cytoplasmic membrane," <i>Microbiol. Mol. Biol. Rev.</i> , 63:161-193, 1999.
	C21	Gill <i>et al.</i> , "A comparative study of global stress gene regulation in response to overexpression of recombinant proteins in <i>E. coli</i> ," <i>Metabolic Engineering</i> , 2:178-189, 2000.
	C22	Hahm D H <i>et al.</i> , "Characterization and evaluation of a pta (phosphotransacetylase) negative mutant of <i>Escherichia coli</i> HB101 as production host of foreign lipase," <i>Applied Microbiology and Biotechnology</i> , 42:100-107, 1994.
	C23	Hanahan <i>et al.</i> , "Studies on transformation of <i>Escherichia coli</i> with plasmids," <i>J. Mol. Biol.</i> , 166(4):557-580, 1983.
	C24	Hannig, "Strategies for optimizing heterologous protein expression in <i>Escherichia coli</i> ," <i>Trends Biotechnol.</i> , 16(2):54-60, 1998.

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Other Art (Including Author, Title, Date Pertinent Pages, Etc.)

Exam. Init.	Ref. Des.	Citation
	C25	Hayashi <i>et al.</i> , "Construction of a genetic linkage map of the model legume <i>Lotus japonicus</i> using an intraspecific F2 population," <i>DNA Research</i> , 8:11-22, 2001.
	C26	Hockney, "Recent developments in heterologous protein production in <i>Escherichia coli</i> ," <i>Trends Biotechnol.</i> , 12(11):456-632, 1994.
	C27	Holms, "Flux analysis and control of the central metabolic pathways in <i>Escherichia coli</i> ," <i>FEMS Microbiology Reviews</i> , 19:85-116, 1996.
	C28	Holms, "The central metabolic pathways of <i>Escherichia coli</i> : relationship between flux and control at a branch point, efficiency of conversion to biomass, and excretion of acetate," <i>Current Topics in Cellular Regulation</i> , 28:69-105, 1986.
	C29	Hynds <i>et al.</i> , "The sec-independent twin-arginine translocation system can transport both tightly folded and malformed proteins across the thylakoid membrane," <i>J. Biol. Chem.</i> , 273:34868-34874, 1998.
	C30	Kakuda <i>et al.</i> , "Construction of Pta-Ack pathway deletion mutants of <i>Escherichia coli</i> and characteristic growth profiles of the mutants in a rich medium," <i>Bioscience Biotechnology Biochemistry</i> , 58:2232-2235, 1994.
	C31	Kitamura, "DNA sequence changes in mutations in the ton B gene on the chromosome of <i>Escherichia coli</i> K-12: insertion elements dominate the spontaneous spectra," <i>Jpn J. Genet.</i> , 70:35-46, 1995.
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	C33	Koob <i>et al.</i> , "Minimizing the genome of <i>Escherichia coli</i> ," <i>Ann NY Acad Science</i> , 745:1-3, 1994.
	C34	Koonin, "How many genes can make a cell: the minimal-gene-set concept," <i>Ann Rev Genome Hum Genet.</i> , 1:99-116, 2000.
	C35	Lee, "High cell-density culture of <i>Escherichia coli</i> ," <i>TIBTECH</i> , 14:98-103, 1996.
	C36	Murphy, "Use of bacteriophage λ recombination functions to promote gene replacement in <i>Escherichia coli</i> ," <i>J. Bacteriol.</i> , 180:2063-2071, 1998.
	C37	Muyrers <i>et al.</i> , "Rapid modification of bacterial artificial chromosomes by ET-recombination," <i>Nucleic Acids Research</i> , 27:1555-1557, 1999.

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Exam. Init.	Ref. Des.	Citation
	C38	Neidhardt <i>et al.</i> , "Culture medium for Enterobacteria," <i>J. Bacteriol.</i> , 119:736-747, 1974.
	C39	Oliner <i>et al.</i> , "In vivo cloning of PCR products in <i>E. coli</i> ," <i>Nucleic Acids Research</i> , 2(22):5192-5197, 1993.
	C40	Otto <i>et al.</i> , "Surface sensing and adhesion of <i>E. coli</i> controlled by the Cpx-signaling pathway," <i>Proc. Natl. Acad. Sci., USA</i> , 99(4):2287-2292, 2002.
	C41	Perna <i>et al.</i> , "The genomes of <i>Escherichia coli</i> K-12 and pathogenic <i>E. coli</i> ," <i>Pathogenic E. coli Paradigm for Bacterial Pathogenesis</i> , M.S. Donnenberg, Editor, Academic Press, 2002.
	C42	Pfeifer <i>et al.</i> , "Biosynthesis of complex polyketides in metabolically engineered strain of <i>E. coli</i> ," <i>Science</i> 291:1790-1792, 2001.
	C43	Ponce E., "Effect of growth rate reduction and genetic modifications of acetate accumulation and biomass yields in <i>Escherichia coli</i> ," <i>Biotechnology and Bioengineering</i> , 87:775-780, 1999.
	C44	Posfai <i>et al.</i> , "Markerless gene replacement in <i>Escherichia coli</i> stimulated by a double-strand break in the chromosome," <i>Nucleic Acids Research</i> , 27:4409-4415, 1999.
	C45	Posfai <i>et al.</i> , "Versatile insertion plasmids for targeted genome manipulations in bacteria: isolation, deletion, and rescue of the pathogenicity island LEE of the <i>Escherichia coli</i> O157:H7 genome," <i>J. Bacteriol.</i> , 179:4426-4428, 1997.
	C46	Pugsley, "The complete general secretory pathway in gram-negative bacteria," <i>Microbiol. Rev.</i> , 57:50-108, 1993.
	C47	Reisenberg, "High cell density cultivation of <i>E. coli</i> at controlled specific growth rate," <i>J. Biotech</i> , 20(10):17-27, 1991.
	C48	Ritz <i>et al.</i> , "Roles of thiol redox pathways in bacteria," <i>Annu Rev Microbiol</i> , 55:21-48, 2001.
	C49	Sang, "High cell-density-culture of <i>Escherichia coli</i> ," <i>Trends in Biotechnology</i> , 14:98-105, 1996.
	C50	Santini <i>et al.</i> , "A novel sec-independent periplasmic protein translocation pathway in <i>Escherichia coli</i> ," <i>EMBO J.</i> , 17:101-112, 1998.
	C51	Sargent <i>et al.</i> , "Overlapping functions of components of a bacterial sec-independent protein export pathway," <i>EMBO J.</i> , 17:3640-3650, 1998.

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Exam. Init.	Ref. Des.	Citation
	C52	Schaechter <i>et al.</i> , "Introduction," In: <i>Escherichia coli and Salmonella</i> , ed. Neidhart, FC <i>et al.</i> , 1-2, ASM Press, Washington, D.C., 1997.
	C53	Selinger <i>et al.</i> , "RNA expression analysis using a 30 base pair resolution Escherichia coli genome array," <i>Nat Biotechnol</i> , 18(12):1262-1268, 2000.
	C54	Shiloach <i>et al.</i> "Effects of glucose supply strategy on acetate accumulation, by escherichia coli BL21 (lambda-DE3) and escherichia coli JM109," <i>Biotechnology and Bioengineering</i> , 49:421-428, 1996.
	C55	Shiloach <i>et al.</i> , "Growing E. Coli to high cell density-A historical perspective on method development," <i>Biotechnology Advances</i> , 23:345-357, 2005.
	C56	Simmons <i>et al.</i> , "Translational level is a critical factor for secretion of heterologous proteins in E. coli," <i>Nature</i> , 14:629-634, 1996.
	C57	Sing-Gasson <i>et al.</i> , "Maskless fabrication of light-directed oligonucleotide microarrays using a digital micromirror array," <i>Nat Biotechnol.</i> , 17(10):974-978, 1999.
	C58	Smalley <i>et al.</i> , "In search of the minimal escherichia coli genome," <i>Trends in Microbiology</i> , 11:6-8, 2003.
	C59	Swartz, "Advances in E. coli production of therapeutic proteins," <i>Curr. Opin in Biotech</i> , 12:195-201, 2001.
	C60	Thomas <i>et al.</i> , "Export of active green fluorescent protein to the periplasm by the twin-arginine translocase (TAT) pathway in Escherichia coli," <i>Mol Micro</i> , 39(1):47-53, 2001.
	C61	Venkatesan <i>et al.</i> , "Complete DNA sequence and analysis of the large virulence plasmid of Shigella flexner," <i>Infection of Immunity</i> , 3271-3285, 2001.
	C62	Weiner <i>et al.</i> , "A novel and ubiquitous system for membrane targeting and secretion of cofactor-containing proteins," <i>Cell</i> , 93:93-101, 1998.
	C63	Welch <i>et al.</i> , "Extensive mosaic structure revealed by the complete genome sequence of uropathogenic Escherichia coli," <i>Proc. Natl. Acad. Sci., USA</i> , 99(26):17020-17024, 2002.
	C64	Yang <i>et al.</i> , "Metabolic flux analysis of escherichia coli deficient in the acetate production pathway and expressing the bacillus subtilis acetolactate synthase," <i>Metabolic Engineering</i> 1:26-34, 1999.

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Exam. Init.	Ref. Des.	Citation
	C65	Yu <i>et al.</i> , "An efficient recombination system for chromosome engineering in Escherichia coli," <i>Proc. Natl. Acad. Sci., USA</i> , 97:5978-5983, 2000.
	C66	Yu <i>et al.</i> , "Minimization of the Escherichia coli genome using a Tn5-targeted Cre/LoxP excision system," <i>Nature Biotech.</i> , 20:1018-1023, 2002.f
	C67	Zhang <i>et al.</i> , "A new logic for DNA engineering using recombination in Escherichia coli," <i>Nature Genetics</i> , 20:123-128, 1998.
	C68	Zhang <i>et al.</i> , "DNA cloning by homologous recombination in Escherichia coli," <i>Nature Biotech.</i> , 18:1314-1317, 2000.
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EXAMINER:

DATE CONSIDERED:

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